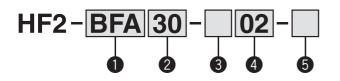
Antibacterial Filter Odour Removal Filter Bacteria Removal Filter

HF2-BF 30 to 40

Symbol

Antibacterial Filter/ Bacteria Removal Filter <u>1</u> <u>1</u> <u>2</u> <u>1</u> <u>2</u> <u>1</u> <u>2</u>

How to Order





			Symbol	Description	Body 30	
	Antibacter Filter type	Antibacterial filter	BFA	Nominal filtration rating: 5 μ m (Antibacterial activation value of 4 or above)	•	•
0		Antibacterial litter	BFB	Nominal filtration rating: 0.1 μm (Antibacterial activation value of 4 or above)	•	•
-		Odour removal filter	BFC	Odour removal filter	•	•
		Bacteria removal filter	BFD	Nominal filtration rating: 0.01 μ m (Bacteria capture performance LRV \geq 9)	•	•
			+			
			_	Rc	•	•
3	Pipe	thread type*1	Ν	NPT	•	•
			F	G	•	•
			+			
			02	1/4	•	•
4	I	Port size	03	3/8		•
			04	1/2		•
			+			
6	Semi-	Flow direction	_	Flow direction: Left to right		
9	standard	Flow difection	R	Flow direction: Right to left		•

*1 The drain ports are Rc1/8 (S) thread type: Rc thread), NPT1/8 female thread (S) thread type: N), and G1/8 female thread (S) thread type: G).

* Pressure and temperature are represented in the following units. Pressure: MPa (psi), Temperature: °C (°F)

Antibacterial Filter HF2-BFA Series

Standard Specifications

Model		HF2-BFA30	HF2-BFA40
Port size		1/4, 3/8	1/4, 3/8, 1/2
Fluid		Compressed air, Nitroge	en, Carbon dioxide (Gas)
Ambient and fluid tempe	eratures	–5 to 60 °C (23 to	140°F) No freezing
Proof pressure		1.5 MPa	(225 psi)
Max. operating pressure*1		1.0 MPa	(150 psi)
Rated flow*2		400 l/min (ANR)	800 l/min (ANR)
Nominal filtration rating	⊧3	5 μm (90 % filtered particle size)	
Antibacterial performance (A	ntibacterial activation value)*4	4 or higher	
	Metal parts	Aluminium alloy, Brass (Electroless nickel plating)	
Materials of parts	Bowl	Nylon (US FDA / Japan Food Sanitation Act compliant materials)	
in contact with fluid	Rubber parts	Fluororubber (US FD	A compliant material)
	Lubricant	NSF-H1 grade	
Bowl guard		Nylon (Antibacterial specification)	
Weight		0.27 kg	0.45 kg

*1 For Nitrogen and Carbon dioxide (Gas): 0.99 MPa (145 psi)

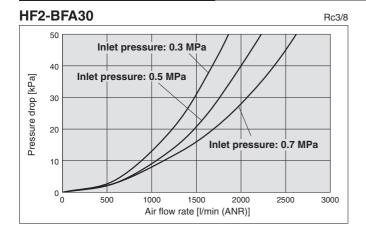
*2 This value is achieved when the inlet pressure is 0.7 MPa and when combined with a bacteria removal filter (HF2-BFD30/40).

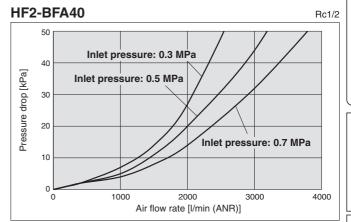
*3 Based on SMC's measurement conditions

*4 This data is achieved from the evaluation of the filter media (fiber) in accordance with JIS L 1902.

* Refer to the chemical data on page 20 for chemical resistance of the bowl.

Flow Rate Characteristics





Antibacterial Filter Odour Removal Filter Bacteria Removal Filter

HF2-BF□*30 to 40*

Antibacterial Filter HF2-BFB Series



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Model		HF2-BFB30	HF2-BFB40	
Port size		1/4, 3/8	1/4, 3/8, 1/2	
Fluid		Compressed air, Nitroge	en, Carbon dioxide (Gas)	
Ambient and fluid tempe	eratures	–5 to 60 °C (23 to	140°F) No freezing	
Proof pressure		1.5 MPa	(225 psi)	
Max. operating pressure	*1	1.0 MPa	(150 psi)	
Rated flow*2		400 l/min (ANR)	800 l/min (ANR)	
Nominal filtration rating ³	⊧3	0.1 μm (99 % filtered particle size)		
Antibacterial performance (A	ntibacterial activation value)*4	4 or higher		
	Metal parts	Aluminium alloy, Brass (B	Aluminium alloy, Brass (Electroless nickel plating)	
Materials of parts	Bowl	Nylon (US FDA / Japan Food Sanitation Act compliant materials)		
in contact with fluid	Rubber parts	Fluororubber (US FDA compliant material)		
	Lubricant	NSF-H1 grade		
Bowl guard		Nylon (Antibacte	rial specification)	
Weight		0.27 kg	0.46 kg	

*1 For Nitrogen and Carbon dioxide (Gas): 0.99 MPa (145 psi)

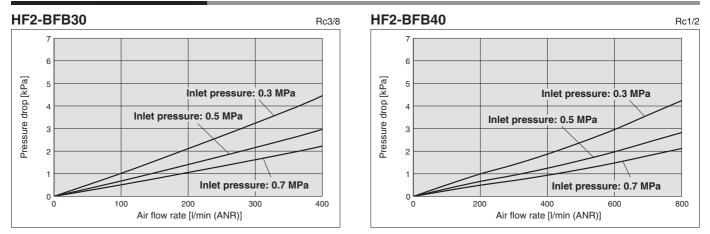
*2 This value is achieved when the inlet pressure is 0.7 MPa and when combined with a bacteria removal filter (HF2-BFD30/40).

*3 Based on SMC's measurement conditions

*4 This data is achieved from the evaluation of the filter media (fiber) in accordance with JIS L 1902.

* Refer to the chemical data on page 20 for chemical resistance of the bowl.

Flow Rate Characteristics



Odour Removal Filter HF2-BFC Series

Standard Specifications

Model		HF2-BFC30	HF2-BFC40
Port size		1/4, 3/8	1/4, 3/8, 1/2
Fluid		Compressed air, Nitroge	n, Carbon dioxide (Gas)
Ambient and fluid temp	eratures	–5 to 60 °C (23 to	140°F) No freezing
Proof pressure		1.5 MPa	(225 psi)
Max. operating pressure*1		1.0 MPa	(150 psi)
Rated flow*2		400 l/min (ANR)	800 l/min (ANR)
Deodourization performance (O	il concentration on the outlet side)	0.003 mg/m ³ or less	
	Metal parts	Aluminium alloy, Brass (Electrole	ss nickel plating), Stainless steel
Materials of parts	Bowl	Nylon (US FDA / Japan Food Sa	nitation Act compliant materials)
in contact with fluid	Rubber parts	Fluororubber (US FD	A compliant material)
	Lubricant	NSF-H	1 grade
Bowl guard		Nylon (Antibacte	rial specification)
Weight		0.20 kg	0.41 kg

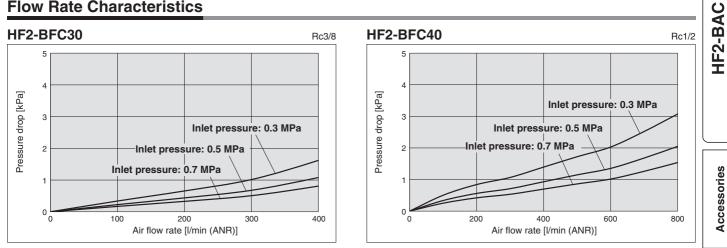
*1 For Nitrogen and Carbon dioxide (Gas): 0.99 MPa (145 psi)

*2 This value is achieved when the inlet pressure is 0.7 MPa and when combined with an antibacterial filter (HF2-BFB30/40) or bacteria removal filter (BFD30/40).

*3 Based on SMC's measurement conditions

* Refer to the chemical data on page 20 for chemical resistance of the bowl.

Flow Rate Characteristics



Specific Product Precautions

Antibacterial Filter Odour Removal Filter Bacteria Removal Filter

HF2-BF□*30 to 40*

Bacteria Removal Filter HF2-BFD Series

Standard Specifications



Model		HF2-BFD30	HF2-BFD40	
Port size		1/4, 3/8	1/4, 3/8, 1/2	
Fluid		Compressed air, Nitroge	en, Carbon dioxide (Gas)	
Ambient and fluid tempe	eratures	5 to 45 °C (4	41 to 113°F)	
Proof pressure		1.5 MPa	(225 psi)	
Max. operating pressure	*1	1.0 MPa	(150 psi)	
Rated flow*2		400 l/min (ANR)	800 l/min (ANR)	
Nominal filtration rating	*3	0.01 µm (99.99 % filtered particle size)		
Bacteria removal performance	(Bacteria capture performance)	LRV ≥ 9*4		
	Metal parts	Aluminium alloy, Brass (B	Aluminium alloy, Brass (Electroless nickel plating)	
Materials of parts	Bowl	Nylon (US FDA / Japan Food Sanitation Act compliant materials)		
in contact with fluid	Rubber parts	Fluororubber (US FD	A compliant material)	
	Lubricant	NSF-H1 grade		
Bowl guard		Nylon (Antibacte	rial specification)	
Weight		0.28 kg	0.46 kg	

*1 For Nitrogen and Carbon dioxide (Gas): 0.99 MPa (145 psi)

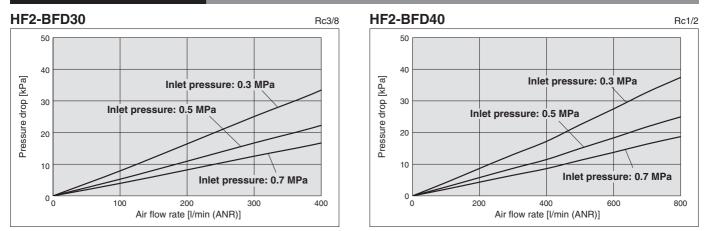
*2 This value is achieved when the inlet pressure is 0.7 MPa.

*3 Based on SMC's measurement conditions

*4 This data is achieved from the evaluation of the filter media in accordance with JIS K 3835.

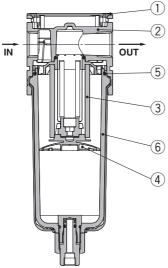
* Refer to the chemical data on page 20 for chemical resistance of the bowl.

Flow Rate Characteristics



Construction

HF2-BFA30 to 40



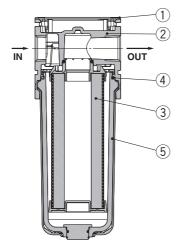
Component Parts

No.	Description Material	
1	Body cover Resin (Antibacterial specification)	
2	Body Aluminium die-cast (Antibacterial coating	
4	Baffle Resin (US FDA / Japan Food Sanitation Act compliant materia	
5	Bowl seal Fluororubber (US FDA compliant materia	
6	Bowl assembly	Resin (US FDA / Japan Food Sanitation Act compliant materials) Resin (Antibacterial specification)

Replacement Parts

No.	Description	Part no.	
INO.		30	40
3	Filter element	BFA30P-060S	BFA40P-060S

HF2-BFC30 to 40



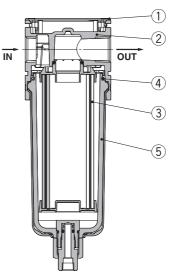
Component Parts

No.	Description	Material	
1	Body cover Resin (Antibacterial specification		
2	Body	Aluminium die-cast (Antibacterial coating)	
4	Bowl seal	Fluororubber (US FDA compliant material)	
5	Bowl assembly	Resin (US FDA / Japan Food Sanitation Act compliant materials) Resin (Antibacterial specification)	

Replacement Parts

No.	Description	Part no.	
		30	40
3	Filter element	BFC-EL30	BFC-EL40

HF2-BFB30 to 40



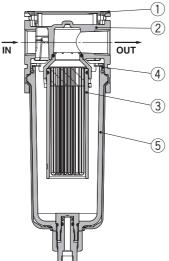
Component Parts

No.	Description	Material	
1	1 Body cover Resin (Antibacterial specification		
2	2 Body Aluminium die-cast (Antibacterial co		
4	Bowl seal	Fluororubber (US FDA compliant material)	
5	Bowl assembly	Resin (US FDA / Japan Food Sanitation Act compliant materials) Resin (Antibacterial specification)	

Replacement Parts

No.	Description	Part no.	
		30	40
3	Filter element	BFB-EL30	BFB-EL40

HF2-BFD30 to 40



Component Parts

No.	Description	Material		
1	Body cover	Resin (Antibacterial specification)		
2	Body	Aluminium die-cast (Antibacterial coating)		
4	Bowl seal Fluororubber (US FDA compliant mate			
5	Bowl assembly	Resin (US FDA / Japan Food Sanitation Act compliant materia Resin (Antibacterial specification)		

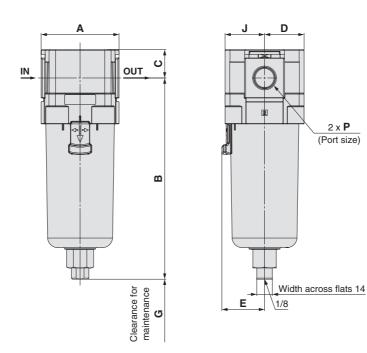
Replacement Parts

No.	Description	Part no.			
		30	40		
3	Filter element	BFD-EL30	BFD-EL40		

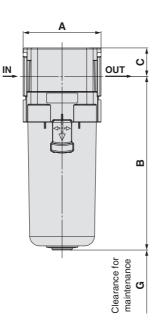


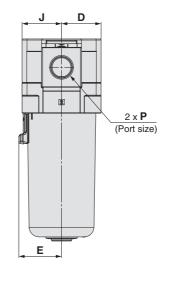
Dimensions

HF2-BFA30/40, HF2-BFB30/40, HF2-BFD30/40



HF2-BFC30/40





Model	Р	Α	В	С	D	E	G	J
HF2-BFA30	1/4, 3/8	53	151.1	21.5	26.5	30	35	26.5
HF2-BFB30	1/4, 3/8	53	151.1	21.5	26.5	30	35	26.5
HF2-BFC30	1/4, 3/8	53	126.4	21.5	26.5	30	35	26.5
HF2-BFD30	1/4, 3/8	53	151.1	21.5	26.5	30	35	26.5
HF2-BFA40	1/4, 3/8, 1/2	70	180.9	25.5	35.5	38.4	40	35.5
HF2-BFB40	1/4, 3/8, 1/2	70	180.9	25.5	35.5	38.4	40	35.5
HF2-BFC40	1/4, 3/8, 1/2	70	156.2	25.5	35.5	38.4	40	35.5
HF2-BFD40	1/4, 3/8, 1/2	70	180.9	25.5	35.5	38.4	40	35.5

SMC